

Study the big trapezoid below and the given information as well as on the diagram. Use the facts and your knowledge of trapezoids, quadrilaterals and triangles (don't forget about linear pairs, vertical angles, and angle addition too!) to find the measures of the missing angles. Write the measure in their proper place on the diagram to get the measure of every angle. Do NOT use a protractor or ruler, as angles may not be drawn to scale.

Given: Quadrilateral ABCD is an isosceles trapezoid
and EF is the midsegment (connects the midpoints!).
 $m\angle BEH \cong m\angle EDB$,
 $\angle BGH$ is a right angle,
 $m\angle BGF = 50^\circ$, $m\angle BEF = 25^\circ$, $m\angle A = 75^\circ$

